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(71)Applicant : JAPAN STEEL WORKS LTD:THE

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(72)Inventor : KABUTOMORI TOSHIKI

TAKAHASHI TOSHIO

(54) MATERIAL FOR HYDROGEN STORAGE

(57)Abstract:

PURPOSE: To obtain an inexpensive hydrogen occluding alloy which occludes a large amt. of hydrogen and is excellent in hydrogen occluding and releasing reactions by substituting Mo, or Mo and Fe for a part of Cr in a Ti-Cr type hydrogen storage alloy.

CONSTITUTION: An alloy having a compsn. represented by a general formula $Ti_xCr_{2-y}Mo_y$ (where $0.8 \leq x \leq 1.2$ and $0 < y \leq 1.0$) or a general formula $Ti_xCr_{2-y-z}Mo_yFe_z$ (where $0.8 \leq x \leq 1.2$, $y > 0$ and $z \leq 1.0$) is refined, cooled and crushed. A hydrogen occluding alloy capable of simply occluding and releasing a large amt. of hydrogen is obtd. with inexpensive starting materials.

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